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Product datasheet for UM500025CF

PSMA (FOLH1) Mouse Monoclonal Antibody [Clone ID: UMAB25]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB25
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, IF 1:100
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human FOLH1(NP_004467) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	84.2 kDa
Gene Name:	folate hydrolase 1
Database Link:	NP_004467 Entrez Gene 53320 MouseEntrez Gene 85309 RatEntrez Gene 476775 DogEntrez Gene 707714 MonkeyEntrez Gene 2346 Human Q04609

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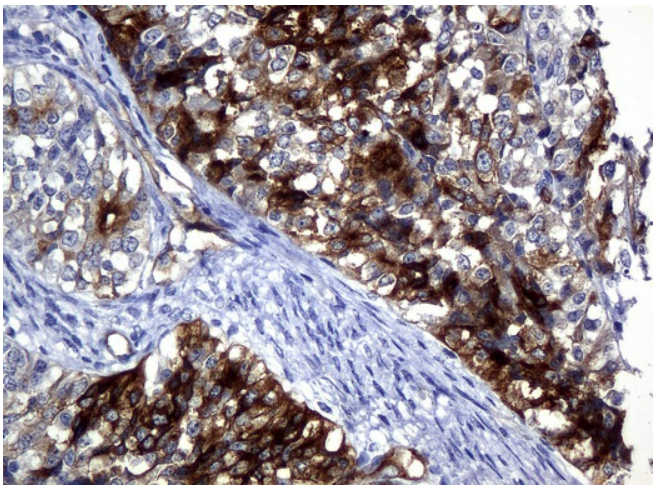
Background: This gene encodes a type II transmembrane glycoprotein belonging to the M28 peptidase family. The protein acts as a glutamate carboxypeptidase on different alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-l-aspartyl-l-glutamate and is expressed in a number of tissues such as prostate, central and peripheral nervous system and kidney. A mutation in this gene may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. Expression of this protein in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. In the prostate the protein is up-regulated in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer. This gene likely arose from a duplication event of a nearby chromosomal region. Alternative splicing gives rise to multiple transcript variants encoding several different isoforms. [provided by RefSeq]

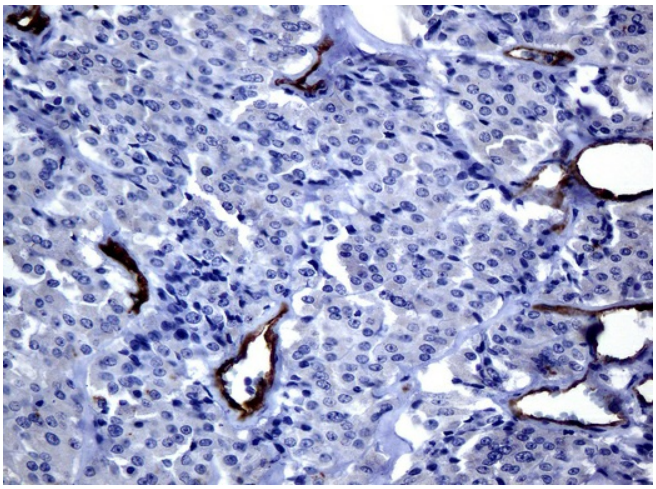
Synonyms: FGCP; FOLH; GCP2; GCPII; mGCP; NAALAD1; NAALAdase; PSM; PSMA

Protein Families: Druggable Genome, Protease, Transmembrane

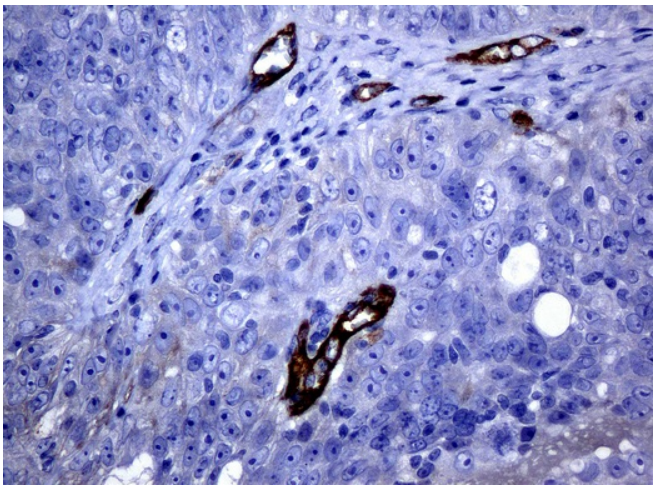
Product images:



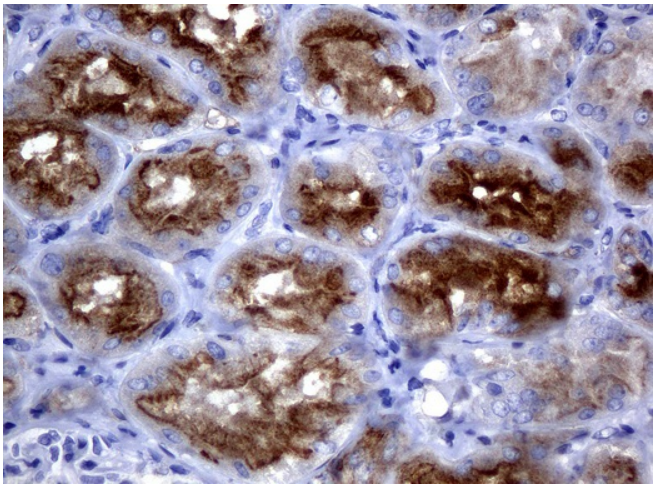
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of endometrium tissue using anti-FOLH1mouse monoclonal antibody. (Clone UMAB25, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



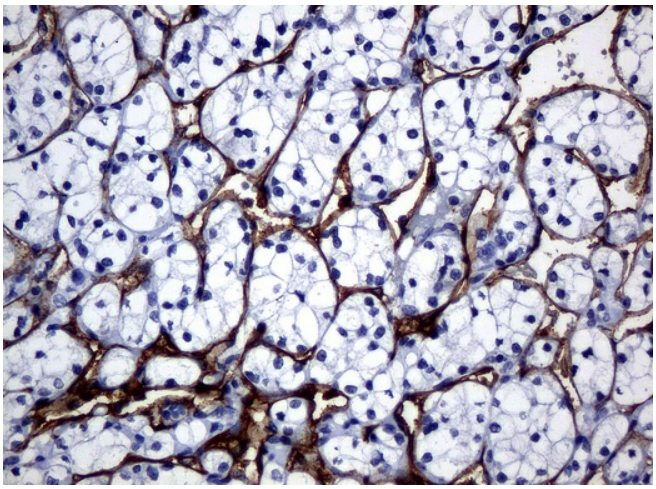
Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-FOLH1mouse monoclonal antibody. (Clone UMAB25, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



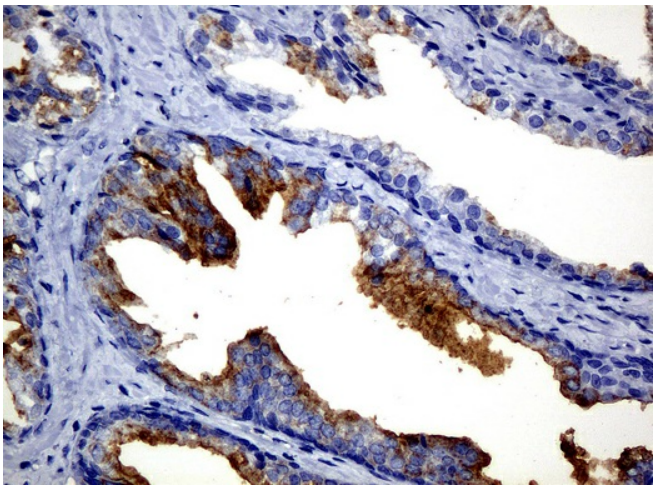
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-FOLH1mouse monoclonal antibody. (Clone UMAB25, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



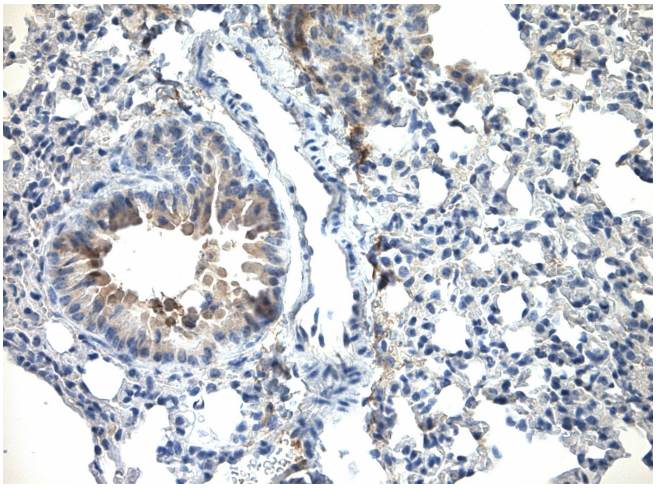
Immunohistochemical staining of paraffin-embedded Kidney tissue using anti-FOLH1mouse monoclonal antibody. (Clone UMAB25, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



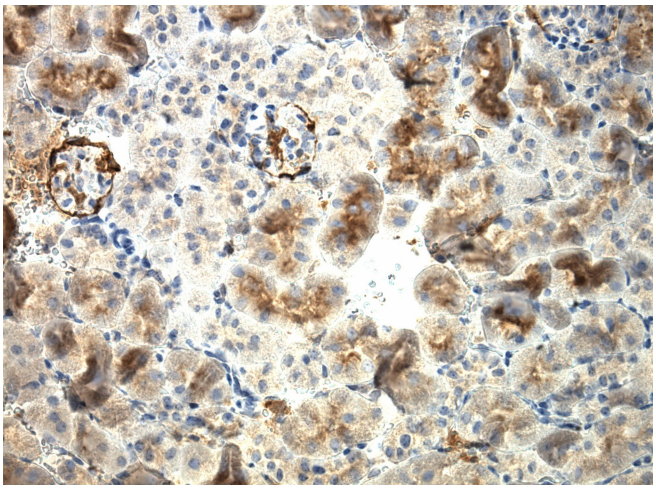
Immunohistochemical staining of paraffin-embedded Carcinoma of kidney tissue using anti-FOLH1mouse monoclonal antibody. (Clone UMAB25, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



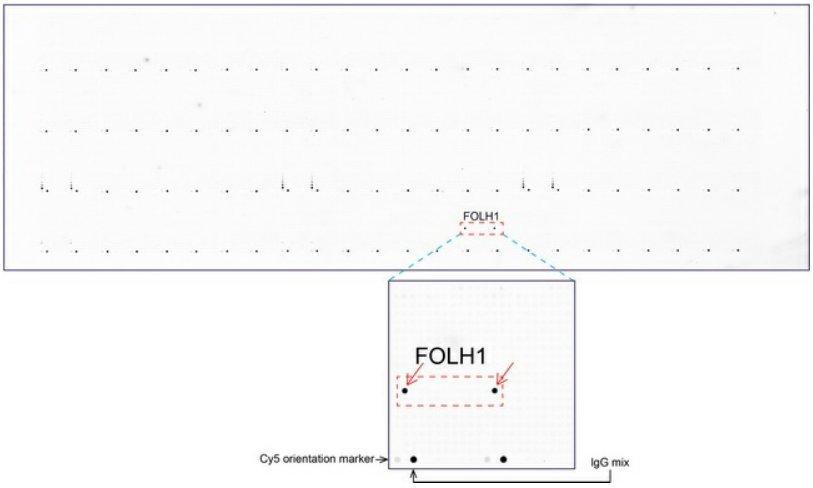
Immunohistochemical staining of paraffin-embedded Carcinoma of prostate tissue using anti-FOLH1mouse monoclonal antibody. (Clone UMAB25, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



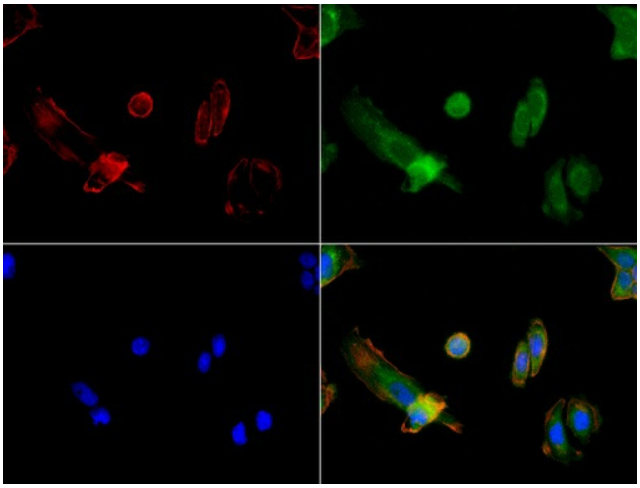
Immunohistochemical staining of paraffin-embedded mouse lung tissue using anti-FOLH1 (PSMA) clone UMAB25 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500025] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



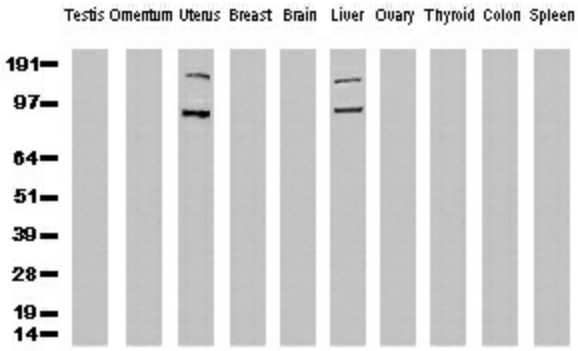
Immunohistochemical staining of paraffin-embedded mouse kidney tissue using anti-FOLH1 (PSMA) clone UMAB25 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500025] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



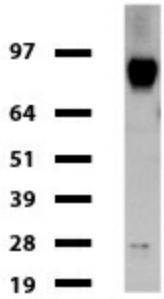
OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-FOLH1 mouse monoclonal antibody (Clone UMAB25). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification. These data show that UltraMAB anti-FOLH1 (Clone UMAB25) very specifically recognizes FOLH1 antigen on OriGene protein microarray chip.



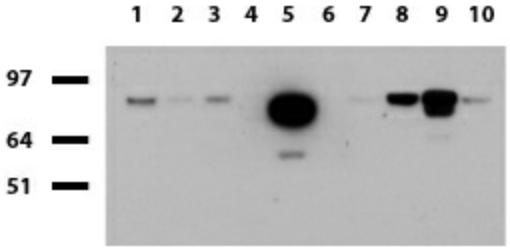
Immunofluorescent staining of PC-12 cells using FOLH1 mouse monoclonal antibody ([UM500025], green). Actin filaments were labeled with TRITC-phalloidin (red), and nuclear with DAPI (blue). The three-color overlay image is located at the bottom-right corner.



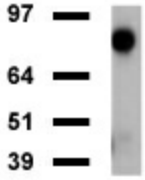
Western Blot analysis of 10 different human tissue lysates (10ug) by using anti-FOLH1 monoclonal antibody (clone UMAB25, 1:500)



Western blot of cell lysates (35ug) from MDCK. Diluation: 1:500



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Thyroid, 7: Colon, 8: Spleen 9: Liver, 10: Ovary). Diluation: 1:500.



Western blot of mouse tissue lysates (20ug) from Brain. Diluation: 1:500.